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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,000	02/18/2004	Moris Dovek	HT03-005	2422
28112 7590 06/07/2011 SAILE ACKERMAN LLC 28 DAVIS AVENUE			EXAMINER	
			KLIMOWICZ, WILLIAM JOSEPH	
POUGHKEEPSIE, NY 12603			ART UNIT	PAPER NUMBER
			2627	
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			06/07/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/781,000	DOVEK ET AL.	
Examiner	Art Unit	
WILLIAM J. KLIMOWICZ	2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- for Reniv

Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MAILING DATE OF - Extrement of time may be available under the provisions of 37 CPR 1.136(a). In no - If NO period for reply is apposited above, the maximum statutory period will apply and - Failure to reply within the soft or extended period for reply will, be statute, cause the a ray reply received by the Office later than three months after the mailing date of this samed patient term adjustment. See 37 CPR 1.704(b).	THIS COMMUNICATION. event, however, may a reply be timely filled will expire SIX (6) MONTHS from the mailing date of this communication, pplication to become ABANDONED (35 U.S.C. § 133).				
Status					
 Responsive to communication(s) filed on <u>23 May 2011</u>. 					
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte (Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1.3-6.19 and 21-24 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election	requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is requ	ired if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority u	inder 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the ce	rtified copies not received.				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper Ne(s)/Moil Date				
Notice of Draftsperson's Fatent Drawing Review (FTO-945) Information Disclosure Statement(s) (PTO/SB/08)	Notice of Informal Patent Application				
Paper No(s)/Mail Date	6) Other:				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 23, 2011 has been entered.

Claim Status

Claims 1, 3-6, 19, 21-24 are currently pending.

Claims 2, 7-18, 20 and 25-36 have been canceled.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3-6, 19 and 21-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the

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relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

As per the amended limitations, set forth in claims 1 (lines 14-17) and claim 19 (lines 1518), "in order to prevent said trace suspension assembly from interfering with circuits external
from said trace suspension assembly, wherein said multiple write lines which are crossed are not
used to prevent external circuitry from interfering with said trace suspension assembly," was not
described in the specification in such a way as to reasonably convey to one skilled in the relevant
art that the inventor(s), at the time the application was filed, had possession of the claimed
invention. Note that "[a]ny negative limitation or exclusionary proviso must have basis in the
original disclosure." See MPEP 2173.05(i).

The original disclosure does not set forth, in any manner, that the *intended* use of the structure is "not used to prevent external circuitry from interfering with said trace suspension assembly." In fact, it is unclear as to what structure or method would provide for crossing wires at points along the length of the traces, to not, at least *secondarily/inherently*, limit, reduce, mitigate or cancel the effects of external noise incident on the traces. Moreover, the combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A), discloses where crosstalk is canceled out (e.g., see pg. 4, line 36; pg. 5, line 1, pg. 8, line 14 - note that the canceling out of crosstalk as well as EME appear to be the primary intended use of Applicant's structure as set forth in the Applicant's claims and supported by the Applicant's original disclosure).

As noted by Carpenter et al. (WO 98/20485 A1), as is well known in the art, the twisting (or crossing of wires) *inherently* shields the two crossed (or twisted) conductors "from external

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noise sources such as EMI and RFI by virtue of the fact that the conductors are twisted around each other," See pg. 3, lines 10-12 of Carpenter et al. (WO 98/20485 A1). This is well known within the electrical art, and is ubiquitously used to mitigate external noise incident on pairs of signal carrying conductors.

The combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06342858 A), structurally discloses the same invention, and can accomplish the elimination of
crosstalk as well as providing a "self-shielding effect" due to the express crossing of wires; how
can the structure (and method) of the Applicant's invention not also, at least to some degree,
function in the same, secondary manner? Is there some undisclosed structure or method which
allows the Applicant's invention to provide for the new limitations? The Applicant's disclosure
is completely silent in this regard.

There is simply nothing in the Applicant's original disclosure that discloses how such an "intended use" can be accomplished, when it is well known that the crossing of such wires in the manner so claimed (and disclosed) would in fact, at least secondarily (or inherently), accomplish the function of reducing external noise that is generated in the wires.

Claims 1, 3-6, 19 and 21-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As per the amended limitations, set forth in claims 1 (lines 14-17) and claim 19 (lines 15-18), "in order to prevent said trace suspension assembly from interfering with circuits external

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from said trace suspension assembly, wherein said multiple write lines which are crossed are not used to prevent external circuitry from interfering with said trace suspension assembly," was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The original disclosure does not set forth, in any manner, that the *intended* use of the structure is "not used to prevent external circuitry from interfering with said trace suspension assembly." In fact, it is unclear as to *what structure or method would provide for crossing wires at points along the length of the traces, to not, at least secondarily (inherently), limit, reduce, mitigate or cancel the effects of external noise incident on the traces. Moreover, the combination of Carpenter et al. (WO 98/20485 Al) in view of Murata et al. (JP 06-342858 A), discloses where crosstalk is canceled out (e.g., see pg. 4, line 36; pg. 5, line 1, pg. 8, line 14 note that the canceling out of crosstalk as well as EME appear to be the primary intended use of Applicant's structure as set forth in the Applicant's claims and supported by the Applicant's original disclosure).*

As noted by Carpenter et al. (WO 98/20485 A1), as is well known in the art, the twisting (or crossing of wires) in addition to expressly cancelling out crosstalk between the crossed (twisted) conductors, *inherently* self-shields, "from external noise sources such as EMI and RFI by virtue of the fact that the conductors are twisted around each other." See pg. 3, lines 10-12 of Carpenter et al. (WO 98/20485 A1). This is well known within the electrical art, and is ubiquitously used to mitigate external noise incident on signal carrying conductors.

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The combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A), structurally discloses the same invention, and can accomplish the elimination of crosstalk as well as providing a "self-shielding effect" due to the express crossing of wires; how can the structure (and method) of the Applicant's invention not also, at least to some degree, function in the same, secondary/inherent manner? Is there some undisclosed structure or method which allows the Applicant's invention to provide for the new limitations? The Applicant's disclosure is completely silent in this regard.

There is simply nothing in the Applicant's original disclosure that discloses how such an "intended use" can be accomplished, when it is well known that the crossing of such wires in the manner so claimed (and disclosed) would in fact, at least secondarily, accomplish the function of reducing external noise that is generated in the wires.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A parent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-6, 19 and 21-24 rejected under 35 U.S.C. 103(a) as being unpatentable over Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A).

As per claims 1 and 19, Carpenter et al. (WO 98/20485 A1) discloses a crosstalk and EME (electromagnetic emission) minimizing trace suspension assembly structure (16) and a

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method thereof, comprising: multiple write lines (e.g., 60, 62) which are crossed between a preamplifier connection point (at 54) and slider write contact pads (22) (e.g., see, *inter alia*, page 7, line 12-23 and page 8, lines 20-29); multiple read lines (e.g., 60, 62 - see in particular page 8, lines 21-25) driven by preamplifier circuits (including 54); the aforementioned slider contact pads (22), which connect said write lines (60, 62) to said trace suspension assembly (16); the aforementioned slider contact pads (22), which connect said read lines (another set of service lines (60, 62) to said trace suspension assembly (16); and multiple write line driven by preamplifier circuits (at 54 via the semiconductor IC chip), wherein said multiple write lines which are crossed between said preamplifier connection point and said slider contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME.

As per claims 3 and 21, wherein said crossing point of said write line (60, 62) is made by the addition of a second metallization layer (e.g., 60A or 62A) onto said trace suspension assembly (16).

As per claims 4 and 22, wherein multiple crossing points of said write lines are used to further cancel out time-delayed (transmission line effects) parts of said crosstalk and EME (based on the crossover structure of the lines (60, 62)).

As per claims 5 and 23, wherein said write lines (60, 62) have parasitic capacitance between the write lines and the read lines (another set of service lines (60, 62), due to the intrinsic metal-dielectric-metal structure).

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As per claims 6 and 24, wherein said parasitic capacitances between the write lines (60, 62) and read lines other set of service lines, 60, 62) are used to cancel crosstalk noise between said write lines and said read lines due to the effective "twisting" structure of the traces.

As per claims 1 and 19, Carpenter et al. (WO 98/20485 A1) does not expressly disclose a single crossing point of said write lines between said preamplifier connection point and said slider contact pads (22) as being placed halfway between said preamplifier connection point and said slider contact pads - e.g., note the phrase "a single crossing point" requires just a crossing at the midpoint, but does not preclude other crosses of the wiring - e.g., see Appellant's claims 4 and 22, which depend from claims 1 and 19, respectively, and which recite "multiple crossing points."

Murata et al. (JP 06-342858 A), however, discloses an integrated circuit chip, wherein the signal lines (1, 2) between the IC chip (7) and the termination pads (3, 4) are crossed halfway between the IC chip and the termination pads (3, 4). Murata et al. (JP 06-342858 A), as readily depicted in FIG. 2, illustrates the advantages to such symmetrical midpoint crossing, (i.e., a crossing at a half point between the lines (1, 2)), stating in paragraph [0010] of the enclosed English translation (provided by the USPTO STIC Library and enclosed herewith):

In the following, an explanation will be given regarding the operation in this application example with reference to Figure 2. As shown in the figure, currents II, 12 flow in opposite directions on signal transmission lines (1), (2) crossing each other via glass film (8), respectively. On one side (left side in the figure) of the crossing portion between signal transmission lines (1), (2), magnetic field M1a generated by current I1 and magnetic field M1b generated by current I2 are in the direction where they strengthen each other, and synthetic magnetic field M1b is generated

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in the downward direction. On the other side (right side in this figure) of the crossing portion of signal transmission lines (1), (2), magnetic field M2a generated by current I1 and magnetic field M2b generated by current I2 are generated and they strengthen each other, so that synthetic magnetic field M2 is generated in the upward direction. That is, synthetic magnetic field M1 and synthetic magnetic field M2 are in directions that cancel each other. As a result, for the overall integrated circuit, the magnetic fields are canceled equivalently, and the magnetic field emitted from the integrated circuit can be suppressed. Consequently, the electromagnetic noise emission characteristics can be improved. [Emphasis added].

Note that the differential current signals (I1 and I2) correspond directly to the differential current signals W- and W+ or R+ and R- of the disclosed Appellant's invention.

Can these magnetic fields (M1 and M2) within Murata et al. (JP 06-342858 A) be canceled equivalently (i.e., equal cancellation) at some arbitrary crossing point between the wires? Certainly not. As is evidenced by Murata et al. (JP 06-342858 A) in each and every instance all the depicted embodiments, the crossing point is indeed halfway and symmetric in order to balance out the opposing magnetic fields generated by each side of the crossing point. More to the point, however, is the known Biot-Savart Law in physics, as it relates magnetic fields to the currents which are their sources. See <u>Fundamentals of Physics</u> (Halliday and Resnick, Copyright 1981 by John Wiley & Sons, Inc.) at pages 557-558, enclosed herewith.

In scalar format, the Biot-Savart Law can be written as:

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$$dB = \frac{\mu_0}{4\pi} \frac{Idl \sin \theta}{r^2} \Rightarrow B = \int \frac{\mu_0}{4\pi} \frac{Idl \sin \theta}{r^2}$$

Where I is the current,

dl is a the magnitude in the length of the differential element of the wire,

dB is the differential contribution to the magnetic field resulting from the differential element of wire, and B is the summed magnetic field over the entire length of the wire,

 μ_0 is the magnetic constant,

r is the distance from the wire element to the point at which the magnetic field is being calculated.

The point to be made here is that the strength of the magnetic field B associated with a finite length of wire l, is directly proportional to the length of wire l. More to the point, for a non-infinite or short length of wire carrying a current which generates a magnetic field, the longer the wire, the stronger the magnetic field B contributed by that length of wire.

Turning now to Figure 2 of Murata et al. (JP 06-342858 A), the wires (1, 2), prior to crossing at (8) (i.e., the left side of the crossing point (8)), generate a composite or synthetic magnetic field downward (M1) due to Fleming's Right-Hand rule (right-hand thumb points in direction of current, fingers wrap-around the wire and represent the conventional magnetic field direction associated with such a directional current). Thus, the contribution of the current I1 and 12 in the wires (1,2) on the left side of Figure 2 of Murata et al. (JP 06-342858 A) prior to the crossing point at (8) (fields M1a and M1b), add to produce a downward magnetic field vector, designated by M1 between the wires.

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Conversely, the contribution of the current II and I2 in the wires (1,2) on the right side of Figure 2 of Murata et al. (JP 06-342858 A) after the crossing at (8) (fields M2b and M2a), add to produce an upward magnetic field vector, designated by M2 between the wires.

Are these magnetic field vectors (M1 and M2) canceled equivalently at just any crossing point of the wires? Absolutely not. For example, if the length of the wires (1, 2) at the left-side of the crossing point (8) were longer relative to the length of the wires (1, 2) to the right of the crossing point in Figure 2 of Murata et al. (JP 06-342858 A) (that is, if Figure 2 of Murata et al. (JP 06-342858 A) were altered such that the crossing point at (8) actually occurred farther to the right-side of Figure 2), the magnetic fields vectors (M1, M2) would still indeed point in opposite directions, but the magnetic field vector M1 would be greater in magnitude than the upward pointing vector M2, since the contribution to the magnetic field M1 by the currents (I1 and I2) in the longer wires (1, 2) at the left-side of the crossing point (8) would yield a larger downward magnetic field magnitude (B) between the longer wires (1, 2) on the left side of the hypothetically moved crossing point, as shown by the Biot-Savart Law.

Additionally, in the above described hypothetical alteration of the depictions of Murata et al. (JP 06-342858 A), if the length of the wires (1, 2) at the right-side of the crossing point (8) were shorter relative to the length of the wires (1, 2) to the left of the crossing point in Figure 2 of Murata et al. (JP 06-342858 A), the <u>magnetic field vector M2 would be smaller in magnitude</u> than the downward pointing vector M1, since the contribution to the magnetic field M2 by the currents (11 and 12) in the shorter wires (1, 2) at the right-side of the moved crossing point (8) would yield a smaller magnetic field magnitude (B) between the shortened wires (1, 2) on the right side of the hypothetically moved crossing point, as shown by the Biot-Savart Law.

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Therefore, in this hypothetical alteration of the embodiments disclosed by Murata et al. (JP 06-342858 A) in which the crossing point is moved from the midpoint to, e.g., the right, while there would indeed be some cancelling of the vector strength of M1, there would still be an overall magnetic field vector M1 that points downward.

In Murata et al. (JP 06-342858 A), however, the "magnetic fields are canceled equivalently" as expressly stated and depicted in all embodiments of Murata et al. (JP 06-342858 A)). See, e.g., paragraph [0010] of the enclosed STIC translation of Murata et al. (JP 06-342858 A). See also, page 7 at line 18, wherein it is also expressly stated that due to the crossing of wires (1, 2), "the overall magnetic field is canceled."

Clearly, it is no accident that each and every embodiment (Figure 6 is prior art) of Murata et al. (JP 06-342858 A) clearly and unquestionably depicts the crossing point of the wires (1, 2) as halfway between their respective endpoints.

Thus, given the express teachings and disclosures of Murata et al. (JP 06-342858 A) and Carpenter et al. (WO 98/20485 A1), it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a crossing point of said write lines between said preamplifier connection point and said slider contact pads of Carpenter et al. (WO 98/20485 A1) as placed halfway between said preamplifier connection point and said slider contact pads, as exemplified and taught by Murata et al. (JP 06-342858 A) - note also that Murata et al. (JP 06-342858 A) further suggest that more than one crossing is suitable, a la Carpenter et al. (WO 98/20485 A1). See paragraph [0016] of Murata et al. (JP 06-342858 A).

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The rationale is as follows: one of ordinary skill in the art would have been motivated to provide a crossing point of said write lines between said preamplifier connection point and said slider contact pads of Carpenter et al. (WO 98/20485 A1) as placed halfway between said preamplifier connection point and said slider contact pads, as exemplified and taught by Murata et al. (JP 06-342858 A) - note also that Murata et al. (JP 06-342858 A) further suggest that more than one crossing is suitable, a la Carpenter et al. (WO 98/20485 A1) -see paragraph [0016] of Murata et al. (JP 06-342858 A)) in order to achieve the predictable result of providing a field which is negated equivalently (i.e., symmetrically at a midway point of a single crossing), whereby "the electromagnetic noise emission characteristics can be improved." See paragraph [0011] of Murata et al. (JP 06-342858 A).

As per the amended limitations, set forth in claims 1 (lines 14-17) and claim 19 (lines 1518), "in order to prevent said trace suspension assembly from interfering with circuits external
from said trace suspension assembly, wherein said multiple write lines which are crossed are not
used to prevent external circuitry from interfering with said trace suspension assembly," is
merely functional, intended use language, and does not in any way distinguish from the
structure/method shown by the combination of Carpenter et al. (WO 98/20485 A1) in view of
Murata et al. (JP 06-342858 A).

More specifically, the Examiner notes that the amended phrase is an intended "use" limitation provided in a claim written in structural terms and the manipulation of such structure (method claim 19). "[A]pparatus claims cover what a device is, not what a device does."

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Hewlett-Packard Co. v. Bausch & Lomb, Inc., 909 F.2d 1464, 1468 [15 USPQ2d 1525] (Fed. Cir. 1990).

Additionally, amended claims 1 and 19 are seen to be met by the combined structure and manipulation of such structure, of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A) since there is no *structural* or manipulative difference between the claims and Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A). As has been widely held in patent law, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPO 458, 459 (CCPA 1963).

Since the claimed structure and manipulation of such is identically met by the combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A), as shown by the Examiner, and as affirmed by the U.S. Board of Patent Appeals and Interferences (see decision rendered on February 22, 2011), the Examiner notes that the combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A) is inherently capable of performing the positive functional language set forth in the claimed invention..

Additionally, it has been held that to be entitled to weight in method claims, the recited structure limitations therein must affect the method in a manipulative sense, and not amount to the mere <u>claiming of a use</u> of a particular structure. Ex parte Pfeiffer, 135 USPQ 31 (BPAI 1961).

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The following 35 USC 103(a) rejections are being made in light of a recent Supreme Court opinion.

The Supreme Court has issued its opinion in KSR, regarding the issue of obviousness under 35 U.S.C. 5 103(a) when the claim recites a combination of elements of the prior art. KSR Int'l Co. v. Teleflex, Inc., 82 USPQ 2d 1385 (U.S. 2007).

In the decision, the Court reaffirmed the Graham factors in the determination of obviousness under 35 U.S.C. 5 103(a), inclusive of the four factual inquiries under Graham, which are:

- (a) determining the scope and contents of the prior art;
- (b) ascertaining the differences between the prior art and the claims in issue;
- (c) resolving the level of ordinary skill in the pertinent art; and
- (d) evaluating evidence of secondary consideration.

Graham v. John Deere, 383 U.S. I, 17-18, 148 USPQ 459,467 (1966).

It is noted that the Court did not totally reject the use of "teaching, suggestion, or motivation" as a factor in the obviousness analysis. Rather, the Court recognized that a showing of "teaching, suggestion, or motivation" to combine the prior art to meet the claimed subject matter could provide a helpful insight in determining whether the claimed subject matter is obvious under 35 U.S.C. 103(a).

More noteworthy, however, the Court rejected a rigid application of the "teaching, suggestion, or motivation" (TSM) test, which required a showing of some teaching, suggestion, or motivation in the prior art that would lead one of ordinary skill in the art to combine the prior

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art elements in the manner claimed in the application or patent before holding the claimed subject matter to be obvious.

The Court noted that the analysis supporting a rejection under 35 U.S.C. 103(a) should be made explicit, and that it was "important to identify a reason that would have prompted a person of ordinary skill in the relevant field to combine the [prior art] elements" in the manner claimed. The Court specifically stated:

Often, it will be necessary . . . to look to interrelated teachings of multiple patents; the effects of demands known to the design community or present in the marketplace; and the background knowledge possessed by a person having ordinary skill in the art, all in order to determine whether there was an apparent reason to combine the known elements in the fashion claimed by the patent at issue. To facilitate review, this analysis should be made explicit. KSR, at 1396.

Moreover, the Supreme Court also held in KSR, that "t]he combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results." Id. at 1395.

Response to Arguments

Applicant's arguments filed April 25, 2011 have been fully considered but they are not persuasive.

Regarding the Applicant's amendment of claims 1 and 19, as set forth in the rejection, supra, claims 1 and 19 are seen to be met by the combined structure and manipulation of such structure, of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A) since there is no structural or manipulative difference between the claims and Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A). As has been widely held in patent law, a recitation of the intended use of the claimed invention must result in a structural difference

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between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Since the claimed structure and manipulation of such is identically met by the combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A), as shown by the Examiner, and as affirmed by the U.S. Board of Patent Appeals and Interferences (see decision rendered on February 22, 2011), the Examiner notes that the combination of Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A) is inherently capable of performing the positive functional language set forth in the claimed invention..

. Additionally, it has been held that to be entitled to weight in method claims, the recited structure limitations therein must affect the method in a manipulative sense, and not amount to the mere <u>claiming of a use</u> of a particular structure. Ex parte Pfeiffer, 135 USPQ 31 (BPAI 1961).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM J. KLIMOWICZ whose telephone number is (571)272-7577. The examiner can normally be reached on Monday-Friday (7:30AM-6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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